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CIRCULAR No. 9.

U. S. DEPARTMENT OF AGRICULTURE.

BUREAU OF ANIMAL INDUSTRY.

CHECK LIST OF THE ANIMAL PARASITES OF CHICKENS.

(Gallus domesticus.)

This check list is taken from the card catalogue of the Zoological Laboratory, Bureau of Animal Industry, and contains all of the animal parasites of the barnyard fowl recorded up to the present time, so far as it has been possible to trace them in veterinary and zoological literature. The generic names are printed in brevier antique lower case, ex., *Cercomonas*; the generally accepted specific names are given in brevier small caps under the generic name, ex., GALLINÆ. Many species have been described under more than one name, and on this account the synonyms are also given in this list; these synonyms are printed in brevier italics and cross referenced to the name adopted for the parasite by the most recent authorities, ex., "*Coccidium Rivolta* see C. TENELLUM." The author's name immediately following the specific name refers to the author who first described the parasite under that specific name, and the date is the date of the specific name: thus, "C. TENELLUM Railliet & Lucet, 1891" signifies that Railliet and Lucet proposed the name C. TENELLUM in 1891. If an author's name and date are included in parenthesis, and a second author's name and date follow the parenthesis, the first author and date refer to the specific name, the second to the specific combination (binomial): thus, "ISOSPORA AVIUM (Rivolta, 1878) Railliet, 1885," signifies that Rivolta described this parasite in 1878 under the specific name *avium* (i. e., *Psorospermium avium* Rivolta, 1878.) and that Railliet in 1885 transferred the species to the genus ISOSPORA. In case the word "*nec*" is combined with an author's name (*C. Rivolta* Harz, 1886 [*nec* Grassi, 1881]), the parasite described by the second author under the given name is not the same as the one described by the first author under the same name.

In establishing the correct name of any animal, according to the International Code, it is necessary to combine the earliest available specific name with the earliest available generic name for that animal. A name is available only when it has been published with a recognizable description or figure, and when it has not been used at an earlier date for another species (specific name) of the same genus or for another genus (generic name) of the same kingdom.

In the present list I do not commit myself as to the validity of any species or genus, or to the validity of any specific or generic name. The names given are those adopted by the most recent authorities, but it will be years before all of these forms can be properly studied. In a few cases I have adopted here the "generally accepted name," even if it is apparently not the first available name, as I consider it better to make changes in nomenclature only when the literature can be given. An historical review of the species is, however, out of the question in a check list of this kind.

ALBERT HASSALL,

Zoological Laboratory, Bureau of Animal Industry.

Approved:

J. STERLING MORTON, *Secretary*.

WASHINGTON, D. C., March 25, 1896.

PROTOZOA—UNICELLULAR ANIMALS.

Cercomonas

GALLINÆ Rivolta † Trachea

Coccidium*Rivolta* see COCCIDIUM TENELLUM.

TENELLUM Railliet & Lucet, 1891 Intestine

1886, *C. Rivolta* Harz [*nec* Grassi, 1881].**Eimeria**

DUBIA Railliet, 1892 Submucous connective tissue of intestine

1878, *Gregarina avium intestinalis* Rivolta.**Gregarina***avium intestinalis* see EIMERIA DUBIA.**Isospora**

AVIUM (Rivolta, 1878) Railliet, 1883 Intestine

1878, *Psorospermium avium* Rivolta.**Psorospermium***avium* see ISOSPORA AVIUM.**Sœnolophus** see TRICHOMONAS EBERTHI.**Sarcocystis***sp.* (Coll. B. A. I.) Muscles**Trichomonas**

EBERTHI Glands of Lieberkühn (intestine)

1863, *Sœnolophus* Leuckart.

TREMATODA—FLUKES.

Cephalogonimus (also as subg. of **Distomum**).

OVATUS (Rudolphi, 1802) Stossich, 1892 Bursa of Fabricius

1802, *Fasciola ovata* Rudolphi.1809, *Distoma ovatum* (Rudolphi, 1802) Rudolphi.1846, *D. bursicola* Creplin.

PELLUCIDUS (von Linstow, 1873) Railliet, 1890 Oesophagus

1873, *Distomum pellucidum* von Linstow.**Crossodera** (also as subg. of **Distomum**)

LINEARIS (Rudolphi, 1793) Cobbold, 1860 Large intestine

1793, *Fasciola linearis* Rudolphi.1803, *Distoma lineare* (Rudolphi, 1793) Zeder.**Distomum** (also **Distoma**)*armatum* * Molin, 1858 [*nec* (Rudolphi, 1793) Zeder, 1803] see ECHINOSTOMUM

ECHINATUM.

bursicola see CEPHALOGONIMUS OVATUS.*columbæ* see MESOGONIMUS COMMUTATUS.*commutatum* see “ “*dilatatum* * see ECHINOSTOMUM ECHINATUM.*dimorphum* see MESOGONIMUS COMMUTATUS.*echinatum* * see ECHINOSTOMUM ECHINATUM.*lineare* see CROSSODERA LINEARIS.*ovatum* see CEPHALOGONIMUS OVATUS.*oxycephalum* see ECHINOSTOMUM ECHINATUM.*pellucidum* see CEPHALOGONIMUS PELLUCIDUS.

*Railliet thinks that both *D. armatum* Molin and *D. dilatatum* of chickens are identical with *D. echinatum* of ducks. Various authors have published long lists of synonymy of *E. echinatum*. The numerous synonyms are omitted in this paper, as I am very skeptical as to the standing of most of them. The genus *Echinostomum* de Blainville, 1828 [type-species *E. echinatum* (Zeder, 1803)] must be subjected to monographic revision, based upon *specimens* as well as literature, before we can look upon the synonymy as established,

Echinostomum (also **Echinostoma**) (also as subg. of **Distomum**)*dilatatum** see **E. ECHINATUM**.**ECHINATUM*** (Zeder, 1803) de Blainville, 1828.1803, *Distoma echinatum** Zeder.? 1819, *Distoma oxycephalum** Rudolphi.? 1846, "*D. dilatatum** Miram n. sp." [nomen nudum of Creplin].? 1858, *D. armatum** Molin [nec (Rudolphi, 1793) Zeder, 1803].? 1860, "*Echinostoma dilatatum** (Miram," 1846) Cobbold.**Fasciola***linearis* see **CROSSODERA LINEARIS**.*ovata* see **CEPHALOGONIMUS OVATUS**.*verrucosa* see **NOTOCOTYLE VERRUCOSUM**.*trachea* see **SYNGAMUS TRACHEALIS**.**Mesogonimus** (also as subg. of **Distomum**),**COMMUTATUS** (Diesing, 1858) Sonsino, 1889 Intestine1852, *Distoma dimorphum* Wagner [nec Diesing, 1850].1858, *D. commutatum* Diesing.1889, *D. columbæ*? Mazzanti.1890, *Mesogonimus dimorphus* (Wagner, 1852 [nec Diesing, 1850]) Railliet.*dimorphus* see **MESOGONIMUS COMMUTATUS**.**Monostomum** (also **Monostoma**)*attenuatum* see **NOTOCOTYLE VERRUCOSUM**.*lineare* " " "*verrucosum* " " "**Notocotyle***triseriale* see **NOTOCOTYLE VERRUCOSUM**.**VERRUCOSUM** (Frölich, 1789) Monticelli, 1892 Intestine1789, *Fasciola verrucosa* Frölich.1800, *Monostomum verrucosum* (Frölich, 1789) Zeder.1809, *M. attenuatum* Rudolphi [nec Molin, 1859].1819, *M. lineare* Rudolphi.1839, *Notocotylus triserialis* Diesing.1850, *Notocotyle triseriale* (Diesing, 1839) Diesing.**Notocotylus***triserialis* see **NOTOCOTYLE VERRUCOSUM**.**CESTODA.† TAPEWORMS.****Bothriocephalus***longicollis* see **BOTHRIOËNIA LONGICOLLIS**.**Bothriotænia****LONGICOLLIS** (Molin, 1858) Railliet, 1892 Intestine1858, *Dibothrium longicolle* Molin.1878, *Bothriocephalus longicollis* (Molin, 1858) von Linstow.**Cotugnia****DIGONOPORA** (Pasquale, 1890) Diamare, 1893 Intestine1890, *Tenia digonopora* Pasquale.

* Railliet thinks that both *D. armatum* Molin and *D. dilatatum* of chickens are identical with *D. echinatum* of ducks. Various authors have published long lists of synonymy of *E. echinatum*. The numerous synonyms are omitted in this paper, as I am very skeptical as to the standing of most of them. The genus *Echinostomum* de Blainville, 1828 [type-species *E. echinatum* (Zeder, 1803)] must be subjected to monographic revision, based upon *specimens* as well as literature, before we can look upon the synonymy as established.

†For a discussion of these parasites see Stiles' Report upon the Present Knowledge of the Tapeworms of Poultry; Bull. 12, Bureau of Animal Industry, U. S. Department of Agriculture, Washington, D. C.

Cysticercus

sp. Baillet.....Peritoneum

Davainea

CESTICILLUS (Molin, 1858) R. Blanchard, 1891.....Intestine
1858, *Tænia cesticillus* Molin.

ECHINOBOTHRIDA (Méglin, 1881) R. Blanchard, 1891.....Intestine
1881, *Tænia echinobothrida* Méglin.

PROGLOTTINA (Davaine, 1860) R. Blanchard, 1891.....Intestine
1860, *Tænia proglottina* Davaine.

TETRAGONA (Molin, 1858) R. Blanchard, 1891.....Intestine
1858, *Tænia tetragona* Molin.
1882, *T. bothrioplitis* Piana.

Dibothrium

longicolle see BOTHRIOTÆNIA LONGICOLLIS.

Dicranotænia

cuneata see DICRANOTÆNIA SPHENOIDES.

SPHENOIDES (Railliet, 1892) Railliet, 1896.....Intestine
1872, *Tænia cuneata* v. Linstow [*nec* Batsch, 1786].
1892, *T. sphenoides* Railliet.
1893, *Dicranotænia cuneata* (v. Linstow, 1872) Railliet.

Dithyridium

? VARIABLE (Diesing, 1850).....Peritoneum
1850, *Piestocystis variabilis* Diesing.

Drepanidotænia

INFUNDIBULIFORMIS (Goeze, 1782) Railliet, 1893.....Intestine
1779, *Tænia infundibulum* Bloch pro parte.
1782, *T. infundibuliformis* Goeze.

Fimbriaria

MALLEUS (Goeze, 1782) Frölich.....Intestine
1781, *Tænia fasciolaris* γ *malleus* Pallas.
1782, *T. malleus* Goeze.
1802, *Fimbriaria mitra* Frölich.

Piestocystis

variabilis see DITHYRIDIUM VARIABLE.

Tænia (s. l.)

bothrioplitis see DAVAINA TETRAGONA.

cesticillus see " CESTICILLUS.

cuneata see DICRANOTÆNIA SPHENOIDES.

digonopora see COTUGNIA DIGONOPORA.

echinobothrida see DAVAINA ECHINOBOTHRIDA.

EXILIS Dujardin 1845.....Intestine

fasciolaris γ *malleus* see FIMBRIARIA MALLEUS.

infundibuliformis see DREPANIDOTÆNIA INFUNDIBULIFORMIS.

malleus see FIMBRIARIA MALLEUS.

proglottina see DAVAINA PROGLOTTINA.

sp.....Intestine

sphenoides see DICRANOTÆNIA SPHENOIDES.

tetragona see DAVAINA PROGLOTTINA.

NEMATODA—ROUND WORMS.**Ascaris**

compar see HETERAKIS COMPAR.

funiculus see " PERSPICILLUM.

gallopavonis see " "

gibbosa see " "

inflexa see " "

Ascaris—Continued.

<i>lagopodis</i> see	HETERAKIS COMPAR.
<i>papillosa</i> see	" PAPILLOSA.
<i>perspicillum</i> see	" PERSPICILLUM.
<i>vesicularis</i> see	" PAPILLOSA.

Capillaria

<i>semiteres</i> see	TRICHOSOMA LONGICOLLE.
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Cheilospirura

<i>hamulosa</i> see	DISPHARAGUS HAMULOSUS.
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Dispharagus

HAMULOSUS (Diesing, 1851) Stossich, 1890.....	Ventriculus
1851, <i>Spiroptera hamulosa</i> Diesing.	
1860, <i>Cheilospirura hamulosa</i> (Diesing, 1851) Diesing.	
LATICEPS (Rudolphi, 1819) Dujardin, 1845	Esophagus
1819, <i>Spiroptera laticeps</i> Rudolphi.	
1866, <i>Filaria laticeps</i> (Rudolphi, 1819) Schneider.	
NASUTUS (Rudolphi, 1819) Dujardin, 1845.....	Ventriculus
1819, <i>Spiroptera nasuta</i> Rudolphi.	
1866, <i>Filaria nasuta</i> (Rudolphi, 1819) Schneider.	
SPIRALIS Molin, 1858	Esophagus

Filaria

<i>gallinae</i> see	TRICHOSOMA LONGICOLLE.
<i>laticeps</i> see	DISPHARAGUS LATICEPS.
MANSONI Cobbold, 1879	Eye
<i>nasuta</i> see	DISPHARAGUS NASUTUS.
<i>phasiani</i> see	TRICHOSOMA LONGICOLLE.
<i>tetricis</i> see	" "

Fusaria

<i>compar</i> see	HETERAKIS COMPAR.
<i>reflexa</i> see	" PERSPICILLUM.
<i>strumosa</i> see	" "

Gordius

<i>gallinae</i> see	TRICHOSOMA LONGICOLLE.
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Hamularia

<i>nodulosa</i> see	TRICHOSOMA LONGICOLLE.
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Heterakis

BRASILIENSIS Magalhães, 1892	Intestine
COMPAR (Schränk, 1790) Stossich, 1888.....	Intestine
1790, <i>Ascaris compar</i> Schränk.	
1802, <i>A. lagopodis</i> Frölich.	
1803, <i>Fusaria compar</i> (Schränk, 1790) Zeder.	
COMPRESSA Schneider, 1866.....	Intestine
DIFFERENS Sonsino, 1890	Intestine
<i>inflexa</i> see	HETERAKIS PERSPICILLUM.
PAPILLOSA (Bloch, 1782) Railliet, 1885	Intestine
1782, <i>Ascaris papillosa</i> Bloch [nec Molin, 1860].	
1791, <i>A. vesicularis</i> Frölich pro parte.	
1845, <i>Heterakis vesicularis</i> (Frölich, 1791) Dujardin.	
PERSPICILLUM (Rudolphi, 1803) Schneider, 1866	Intestine
1790, <i>Ascaris gallopavonis</i> Gmelin.	
1800, <i>Fusaria reflexa</i> Zeder pro parte.	
1800, <i>F. strumosa</i> Zeder.	
1803, <i>Ascaris perspicillum</i> Rudolphi.	
1809, <i>A. gibbosa</i> Rudolphi.	
1819, <i>A. inflexa</i> Rudolphi.	

Heterakis—Continued.

PERSPICILLUM—continued.

1824, *A. funiculus* E. Deslongchamps.1866, *Heterakis inflexa* (Rudolphi, 1819) Schneider.*vesicularis* see HETERAKIS PAPILLOSA.**Physaloptera**

TRUNCATA Schneider, 1866.....Ventriculus

Sclerostomum (also **Sclerostoma**).*syngamus* see SYNGAMUS TRACHEALIS.**Spiroptera***hamulosa* see DISPHARAGUS HAMULOSUS.*laticeps* see " LATICEPS.*nasuta* see " NASUTUS.*sp.* Bakody.....Intestine (encysted)**Strongylus***trachealis* see SYNGAMUS TRACHEALIS.**Syngamus***primitivus* see SYNGAMUS TRACHEALIS.

TRACHEALIS v. Siebold, 1836.....Trachea

1811, *Fasciola trachea* Montagu.1846, *Strongylus trachealis* (v. Siebold, 1836) Creplin.1851, *Sclerostomum syngamus* Diesing.1860, *Synagamus primitivus* Molin.**Trichosoma** (also **Trichosomum**)

ANNULATUM Molin, 1858.....Intestine

COLLARE v. Linstow, 1873.....Intestine

LONGICOLLE Rudolphi, 1819.....Intestine

? 1782, *Gordius gallinæ* Goeze.? 1790, *Filaria gallinæ* (Goeze, 1782) Gmelin.? 1791, *F. phasiani* Frölich.? 1796, *Linguatula unilinguis* Schrank? 1802, *Filaria tetricis* Frölich.? 1803, *Capillaria semiteres* Zeder.1810, *Hamularia nodulosa* Rudolphi.*longicolle* Rudolphi of Dujardin & Eberth [*nec* Rudolphi] see TRICHOSOMA
RETUSUM.

RETUSUM Railliet, 1893.....Intestine

longicolle Dujardin & Eberth [*nec* Rudolphi].**ARACHNIDA. MITES.****Argas.**

MAURITIANUS Guérin.....External

Cytodites

NUDUS (Vizioli, 1868).....Air passages

Dermanyssus

GALLINÆ (Redi).....External

Dermoglyphus

ELONGATUS Mégnin.....External

MINOR Norner.....External

Epidermoptes

BIFURCATUS Rivolta.....External

BILOBATUS (Rivolta) Railliet & Lucet, 1891.....External

Leiognathus

BURSA Berlese, 1888.

Linguatula*unilinguis* see TRICHOSOMA LONGICOLLE.

Leptus

AUTUMNALIS (Shaw, 1790) Latreille, 1795..... External

Laminosioptes

CYSTICOLA (Vizioli, 1868)..... External

Lophoptes

PATAVINUS Mégnin, 1891.

Megninia

ASTERNALIS (Mégnin)..... External

CUBITALIS (Mégnin)..... External

Pterolichus

OBTUSUS Robin..... External

Sarcoptes

LEVIS var. GALLINÆ Railliet..... External

MUTANS Robin..... External

Syringophilus

BIPECTINATUS Heller, 1880..... External

Tydeus

MOLESTUS Moniez, 1889.

INSECTA. INSECTS.**Goniocotes**

BURNETTI Packard, 1870..... External

GIGAS Taschenberg, 1869..... External

HOLOGASTER (Nitzsch)..... External

Goniodes

DISSIMILIS (Nitzsch)..... External

Lipeurus

CAPONIS (Linné) Railliet, 1895..... External

HETEROGRAPHUS (Nitzsch)..... External

Menopon

BISERIATUM Piaget, 1880..... External

TRIGONOCEPHALUM (Olfers) Railliet, 1895..... External

Sarcopsylla

GALLINACEA Westwood..... External

Vermipsylla

ALAKURT Shimkievitsh, 1885..... External

ADDENDUM: APRIL 10, 1896.

During the final proof correction I have obtained a paper by Railliet dated March 12, 1896, in which he proposes a new generic name **Bunodera** as a substitute for **Crossodera** Cobbold 1860 [*nec* Gould, 1837]; he also proposes a new genus **Choanotænia** for the species **Drepanidotænia infundibuliformis**. The paper arrived too late to incorporate the changes in this list.